

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

12/15/10

Laura Martin
Assistant District Attorney, Norfolk County

Dear ADA Martin,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan, and Stacey Desjardins.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Stacey Desjardins was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Khan (Dookhan) was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in cursive script, appearing to read "Annie Khan".

Annie Khan (Dookhan)
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631
Annie.Khan@state.ma.us

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION

The Commonwealth of Massachusetts

Executive Office of Health and Human Services

Department of Public Health

State Laboratory Institute

Boston Drug Laboratory

Tel (617) 983-6622

Fax (617) 983-6625

Amherst Drug Laboratory

Tel (413) 545-2601

Fax (413) 545-2608

Boston Hours

8:00 – 11:00

2:00 – 4:00

Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPT

City or Department: RANDOLPH Police Dept Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: Detective PAUL Smyth

Defendant(s) Name (last, first, initial):

[REDACTED]

To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

2.01oz baggie w/ white residue inside
(oxycodone)

6.94 gr

[REDACTED]

Received by: [Signature]

Date: 7.6.10

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Amherst Hours

9:00 – 12:00

1:00 – 3:00

DRUG RECEIPT

City or Department: RANDOLPH Police Dept Police Reference No.: [REDACTED]

Name and Rank of Submitting Officer: DETECTIVE PAUL SMYTH

Defendant(s) Name (last, first, initial):

[REDACTED]

To be completed by Submitter

Description of Items Submitted

To be completed by Lab Personnel

Gross Weight

Lab Number

5 bags of green vegetable matter

57.40 gr

[REDACTED]

Received by: [Signature]

Date: 7/6/0

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.

*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Responsible for the Quality Control/Quality Assurance program for the drug lab.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals.

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Stacey Lyn Desjardins

stacey.feiden@state.ma.us

EDUCATION

Master of Science—Forensic Science

University of New Haven; West Haven, Connecticut

May 2006

- Concentration: Criminalistics
- Certificate: Advanced Investigation

Bachelor of Arts—Chemistry

Monmouth College; Monmouth, Illinois

May 2004

- Graduated Cum Laude

EXPERIENCE

Chemist I

Massachusetts Department of Public Health; Jamaica Plain, Massachusetts

March 2009-present

- Analyze unknown substances submitted by Massachusetts Law Enforcement Agencies
- Operate, maintain, and interpret data from analytical equipment (Gas Chromatograph, analytical balance, microscope, Ultraviolet Spectrometer, Infrared Spectrometer)
- Provide expert testimony to local, state, and federal courts in Massachusetts

Teaching/Graduate Assistant

Monmouth College Chemistry Department

University of New Haven Forensic Science Department

January 2001-May 2006

- Supervised labs and answered student questions
- Performed demonstrations using forensic techniques and chemicals

Additional work experience and references available upon request

TRAINING

2009: Multijurisdictional Counterdrug Task Force Training on Current Drug Trends

2009: Six week training with Senior Staff at the Massachusetts Department of Public Health Drug Analysis Laboratory—appointed Assistant Analyst

2005: Internship with the New Hampshire State Crime Lab

COURSEWORK

Biomedical Methods of Forensic Science, Criminal Procedure, Forensic Microscopy, Advanced Criminalistics I and II, Forensic Toxicology, Advanced Investigation I and II, Physical Analysis in Forensic Science, Organic Chemistry I and II, General Chemistry, Analytical Chemistry I and II, Physical Chemistry I, II, and III, Biochemistry, Advanced Inorganic Chemistry

No. [REDACTED]
City: Randolph Police Dept.
Officer: Detective PAUL SMYTH
Def: [REDACTED]
Amount:
No. Cont: 1 Cont: pb
Date Rec'd: 07/06/2010
Gross Wt.: 6.94 ✓

Date Analyzed: 10-05-10

Subst: RES

No. Analyzed:

Net Weight:

Tests: 5SLD

• 2 ASD

Prelim: OXYcodone
B Findings: oxycodone

No. [REDACTED]
City: Randolph Police Dept.
Officer: Detective PAUL SMYTH
Def: [REDACTED]
Amount:
No. Cont: 5 Cont: pb
Date Rec'd: 07/06/2010
Gross Wt.: 51.40 ✓

Date Analyzed: 9-30-10

Subst: VM

No. Analyzed: 3
Net Weight: 31.91g
Tests: 9SLD

Prelim:

Findings: marijuana

DRUG POWDER ANALYSIS FORM

SAMPLE #



AGENCY

Randolph

ANALYST

SLD

No. of samples tested: _____

Evidence Wt.

✓

PHYSICAL DESCRIPTION:

- signed & sealed
- white residue in ziploc
pb

- rinsed in CHCl_3

Gross Wt (): _____

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: _____

PRELIMINARY TESTS

Spot Tests

Cobalt
Thiocyanate () ⊖

Marquis ⊕ purple

Froehde's ⊖

Mecke's ⊕ green

Microcrystalline Tests

Gold
Chloride _____

TLTA () _____

OTHER TESTS

GC ⊕ Oxycodone

PRELIMINARY TEST RESULTS

RESULTS Oxycodone

DATE 9-28-10

GC/MS CONFIRMATORY TEST

RESULTS Oxycodone

MS
OPERATOR ASD

DATE 10-5-10

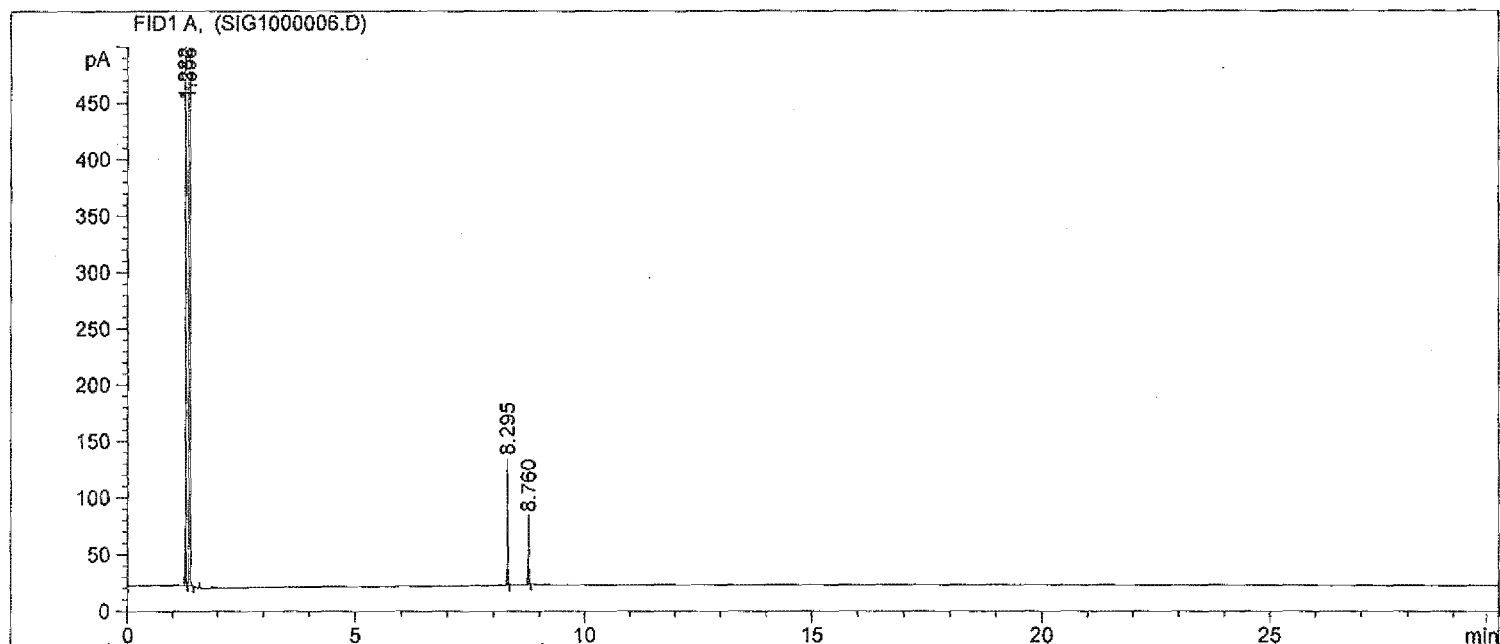
Sample Name: XXXXXXXXXX

```

=====
Acq. Operator   : ASD                      Seq. Line :    6
Acq. Instrument : Drug Lab GC#3            Location  : Vial 6
Injection Date  : 9/29/2010 6:21:23 PM    Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\SCREEN.M
Last changed    : 8/3/2010 11:51:05 AM
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.282	1	BB	481.05167	766.93872	1.03907
2	1.356	1	BB S	4.56336e4	4.25614e4	98.56849
3	8.295	1	BB	110.92590	109.31163	0.23960
4	8.760	1	BB	70.76116	58.63628	0.15284

```
Totals :                4.62963e4  4.34963e4
```

```

=====
*** End of Report ***
=====

```

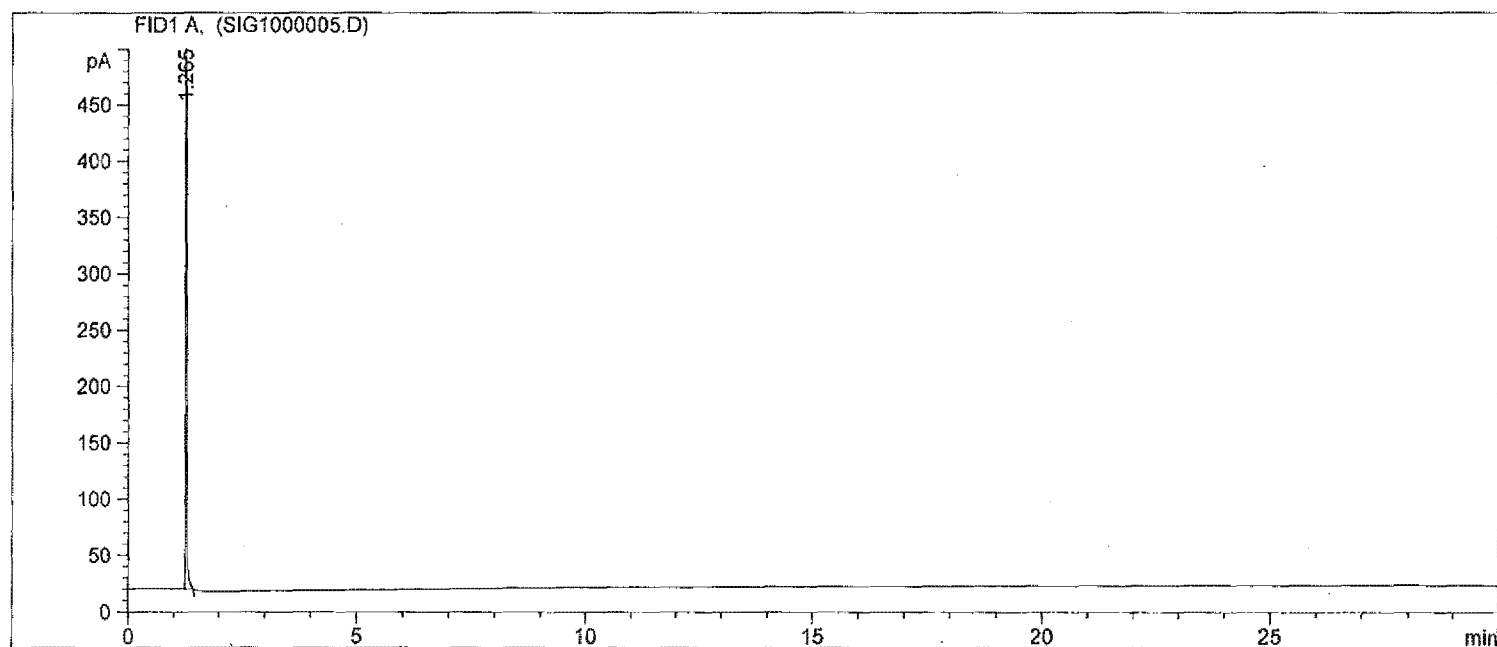
Sample Name: BLANK

```

=====
Acq. Operator   : ASD                      Seq. Line :    5
Acq. Instrument : Drug Lab GC#3            Location  : Vial 5
Injection Date  : 9/29/2010 5:47:01 PM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\SCREEN.M
Last changed    : 8/3/2010 11:51:05 AM
=====

```



```

=====
                          Area Percent Report
=====

```

```

Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs

```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.265	1	BB S	7.87504e4	8.04514e4	1.000e2

```
Totals :                7.87504e4  8.04514e4
```

```

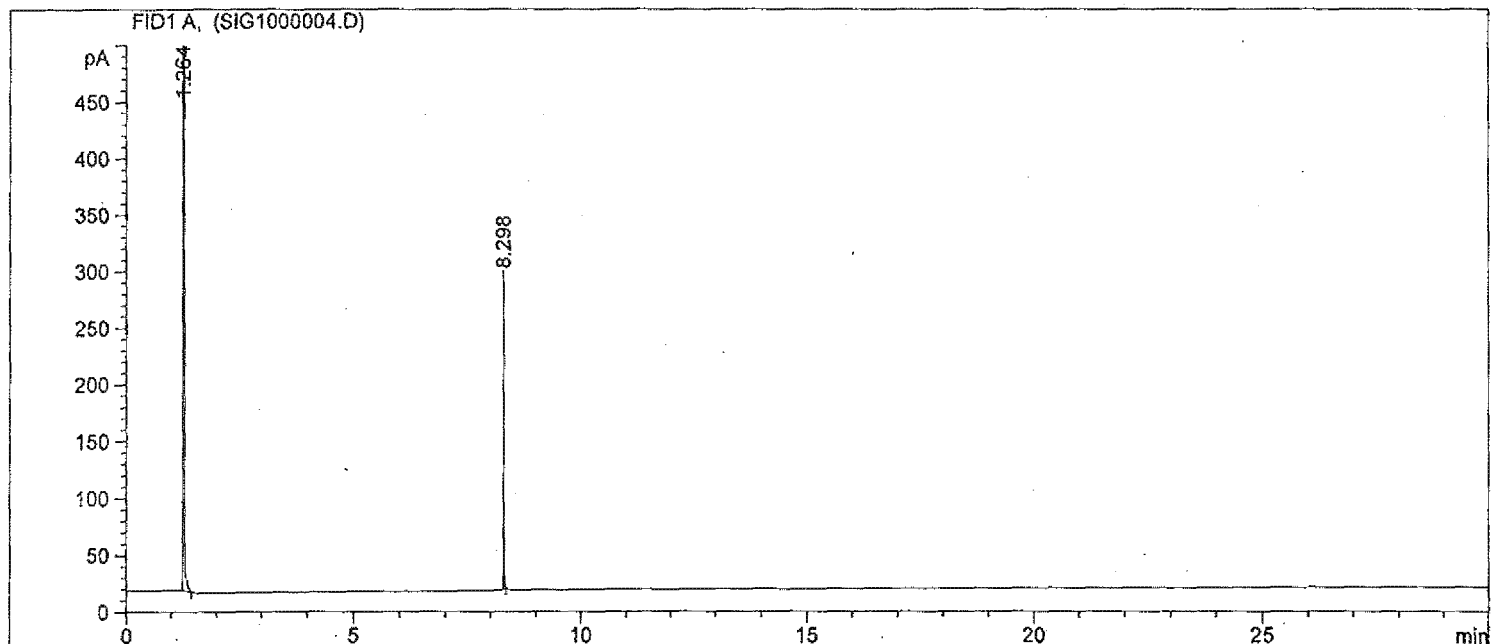
=====
*** End of Report ***
=====

```

Sample Name: OXYCODONE STD

```
=====
Acq. Operator   : ASD                      Seq. Line :    4
Acq. Instrument : Drug Lab GC#3            Location  : Vial 4
Injection Date  : 9/29/2010 5:12:32 PM      Inj       :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\CHEM32\1\SEQUENCE\DEFAULT.S
Method          : C:\CHEM32\1\METHODS\SCREEN.M
Last changed    : 8/3/2010 11:51:05 AM
=====
```



```
=====
                          Area Percent Report
=====
```

```
Sorted By           :      Retention Time
Multiplier:         :      1.0000
Dilution:           :      1.0000
Do not use Multiplier & Dilution Factor with ISTDs
```

Signal 1: FID1 A,

Peak #	RetTime [min]	Sig	Type	Area [pA*s]	Height [pA]	Area %
1	1.264	1	BB S	8.25509e4	7.69693e4	99.66135
2	8.298	1	BB	280.50607	277.72363	0.33865

Totals : 8.28314e4 7.72470e4

```
=====
*** End of Report ***
=====
```

MARIJUANA ANALYSIS SHEET

Sample#



Agency Randolph

Evidence Wt.



Gross wt. (5) 43.51g

3 Macro: ⊕

3 Micro: ⊕

3 Duq: ⊕

- signed & sealed

- VM in 5 pbs

- 3 tested

① gw 20.48g

pw 1.28g

nw 19.20g

② gw 7.31g

pw 1.31g

nw 6.00g

③ gw 7.94g

pw 1.23g

nw 6.71g

total net wt =

31.91g

RESULT: marijuana

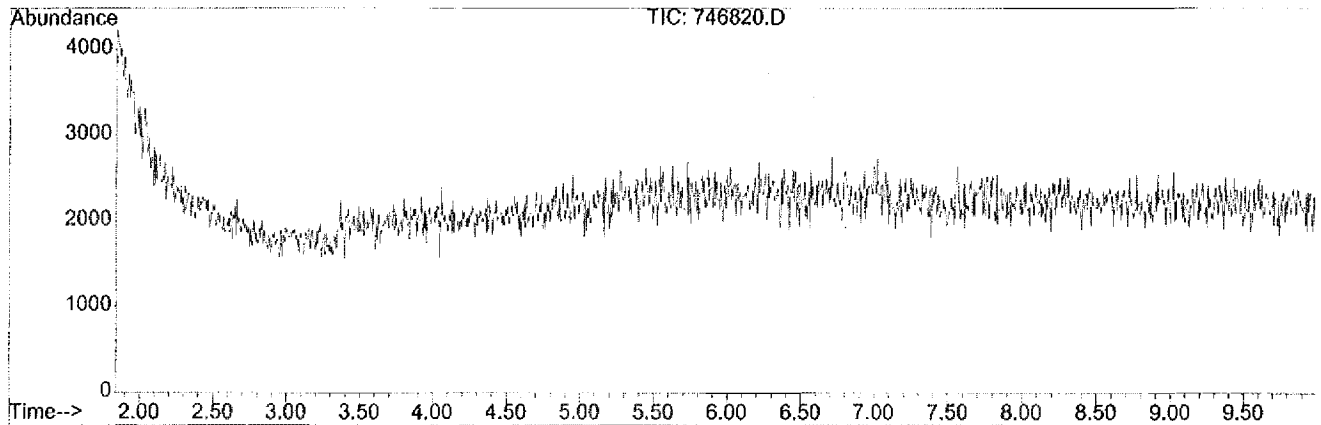
DATE: 9-30-10

Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746820.D
Operator : ASD
Date Acquired : 4 Oct 2010 19:21
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE

✓ ASD
12-13-10



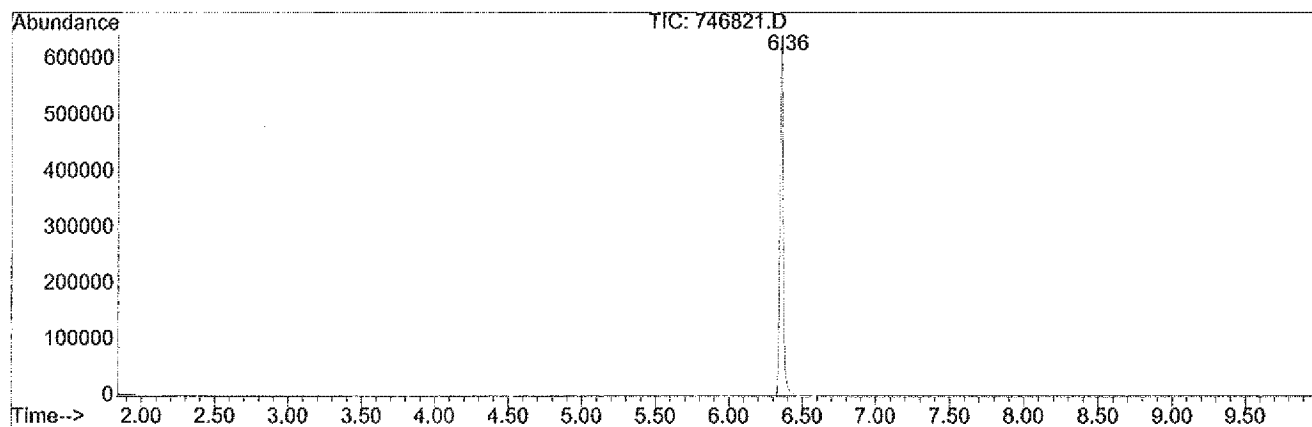
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746821.D
 Operator : ASD
 Date Acquired : 4 Oct 2010 19:33
 Sample Name : OXYCODONE STD
 Submitted by :
 Vial Number : 21
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.358	1005891	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

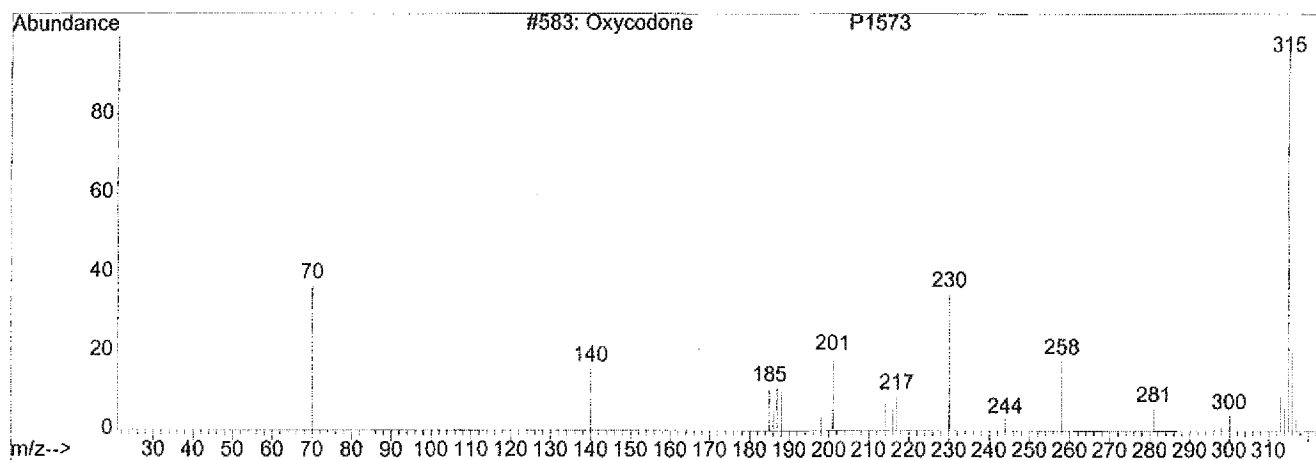
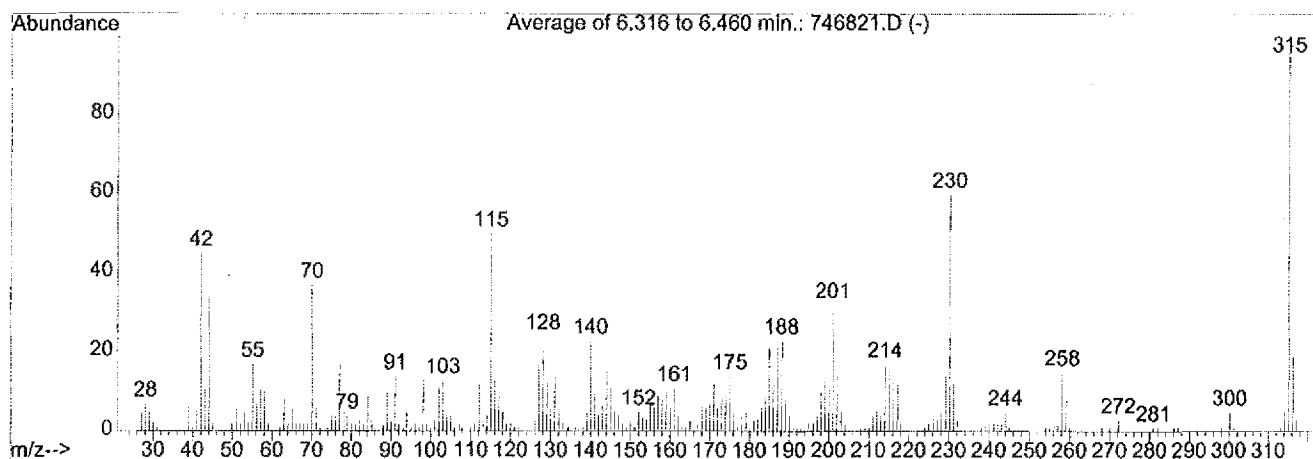
```

File Name       : K:\10_04_10\746821.D
Operator        : ASD
Date Acquired   : 4 Oct 2010 19:33
Sample Name     : OXYCODONE STD
Submitted by    :
Vial Number     : 21
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

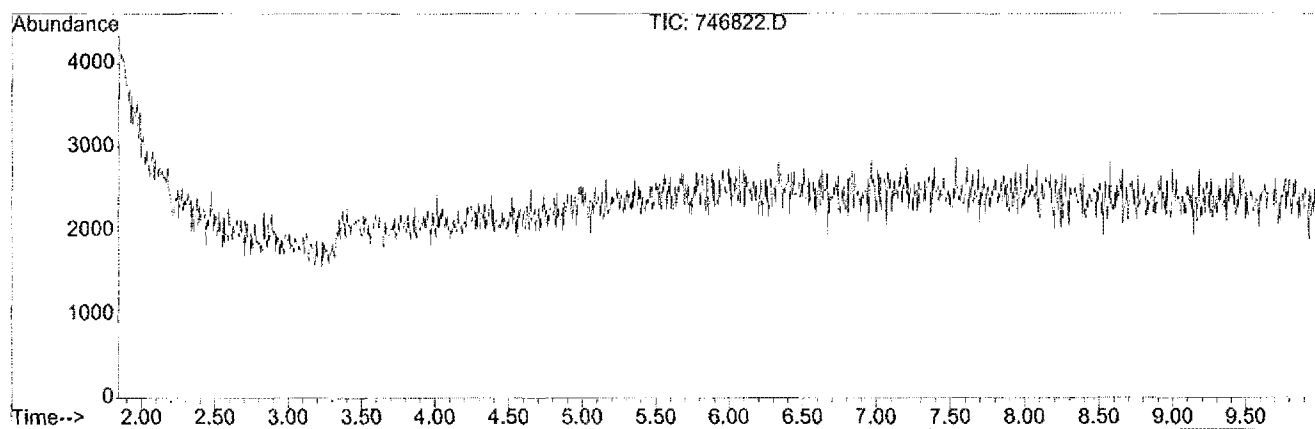
PK#	RT	Library/ID	CAS#	Qual
1	6.36	C:\DATABASE\PMW_TOX2.L		
		Oxycodone	000076-42-6	91
		MPCP	000000-00-0	9
		Amitriptyline-M -H2O AC	@ 000000-00-0	7



Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746822.D
Operator : ASD
Date Acquired : 4 Oct 2010 19:45
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



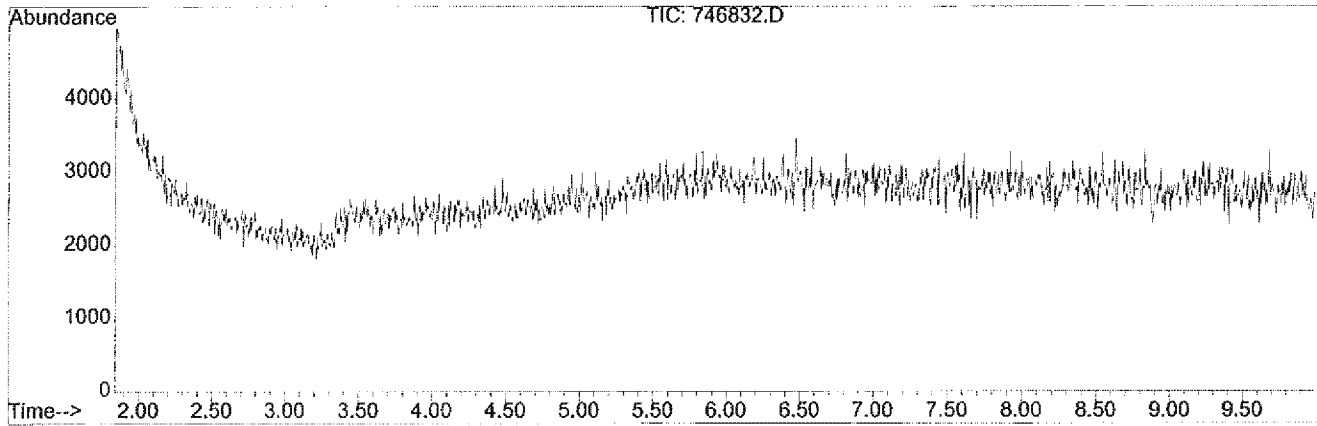
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746832.D
Operator : ASD
Date Acquired : 4 Oct 2010 21:49
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



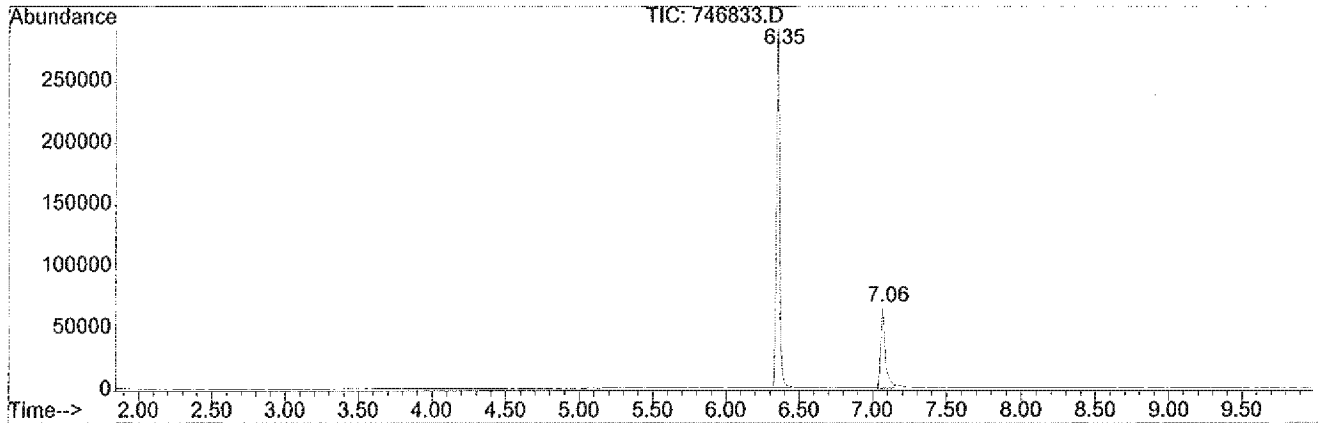
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746833.D
 Operator : ASD
 Date Acquired : 4 Oct 2010 22:02
 Sample Name : XXXXXXXXXX
 Submitted by : SLD
 Vial Number : 33
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.352	439331	76.30	100.00
7.065	136464	23.70	31.06

Area Percent / Library Search Report

Information from Data File:

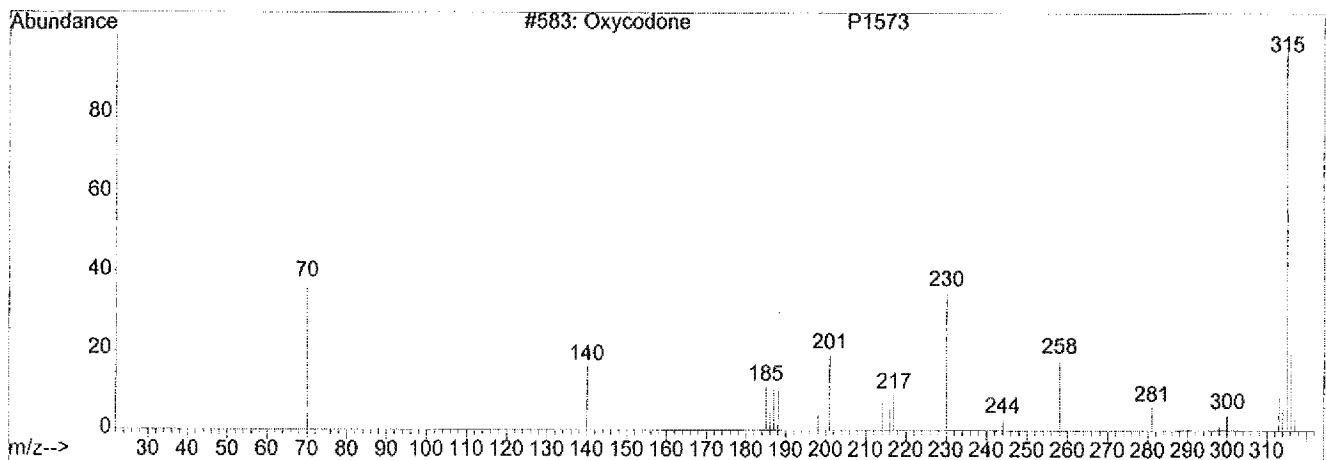
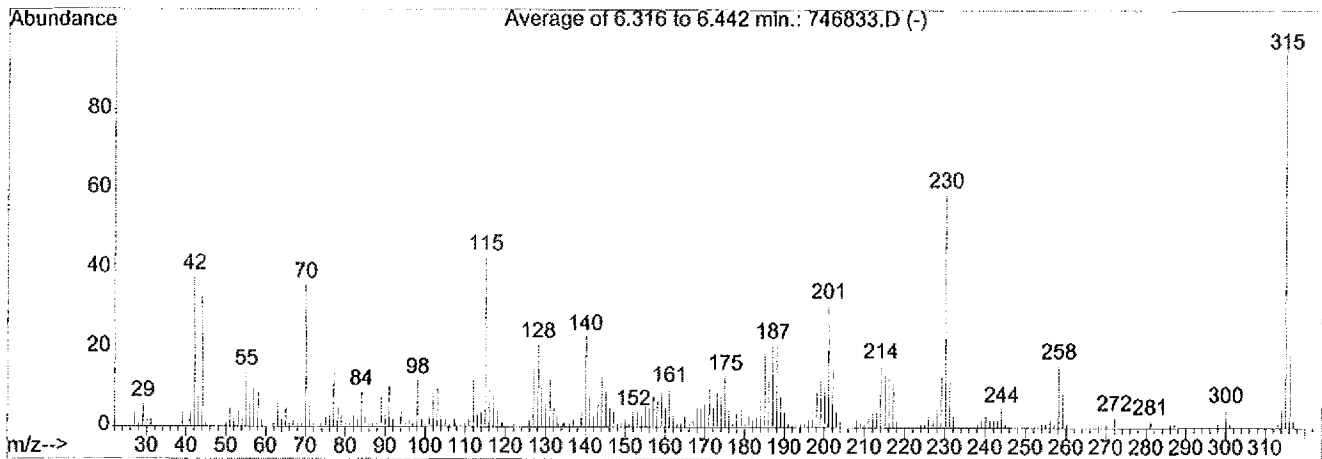
```

File Name       : K:\10_04_10\746833.D
Operator        : ASD
Date Acquired   : 4 Oct 2010 22:02
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 33
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	6.35	C:\DATABASE\PMW_TOX2.L		
		Oxycodone	000076-42-6	91
		Endogenous biomolecule AC	000000-00-0	16
		MPCP	000000-00-0	9



Area Percent / Library Search Report

Information from Data File:

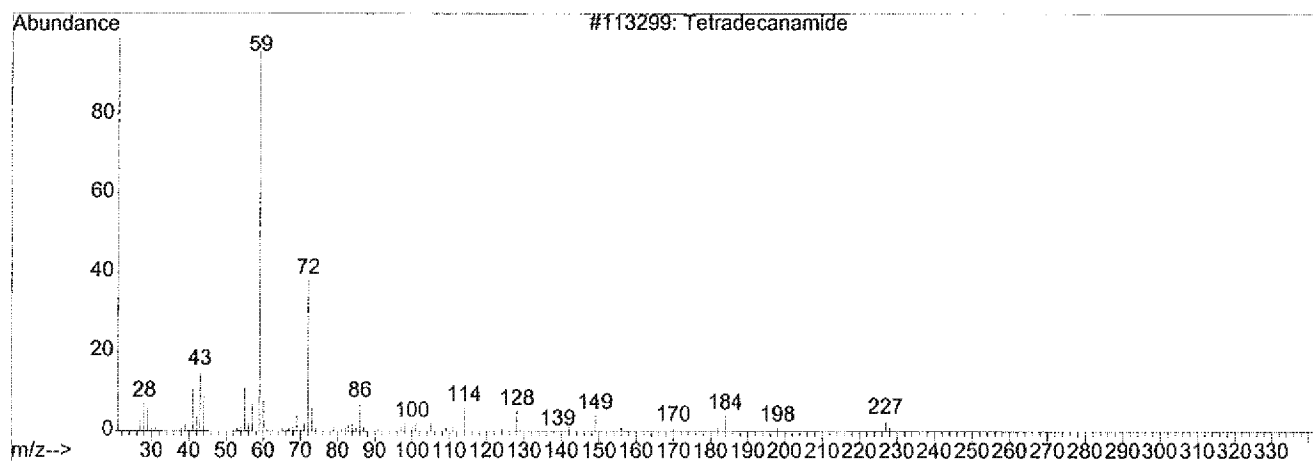
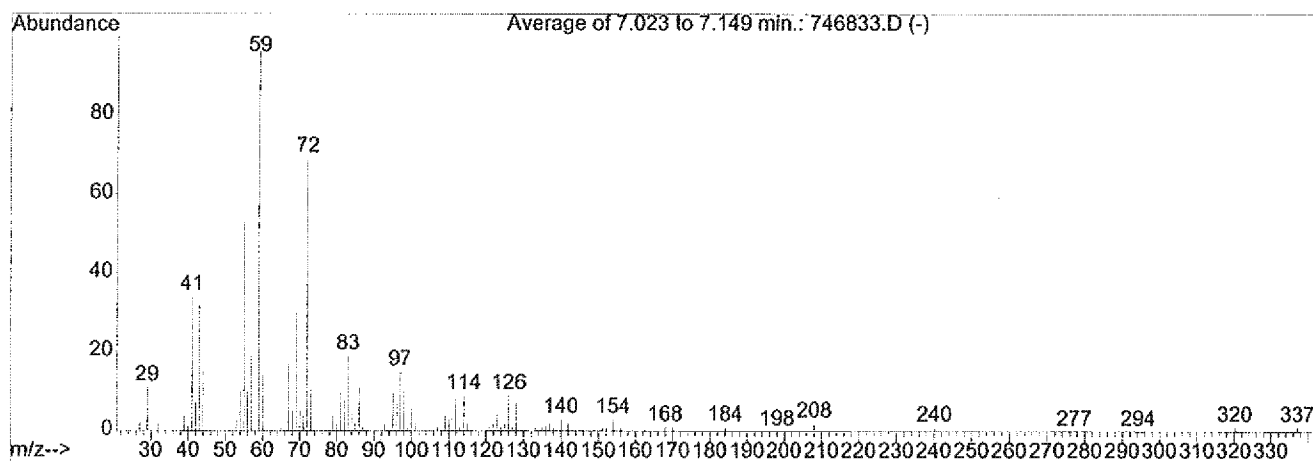
```

File Name       : K:\10_04_10\746833.D
Operator        : ASD
Date Acquired   :  4 Oct 2010   22:02
Sample Name     : ██████████
Submitted by    : SLD
Vial Number     : 33
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries:  C:\DATABASE\SLI.L             Minimum Quality: 90
                   C:\DATABASE\PMW_TOX2.L        Minimum Quality: 90
                   C:\DATABASE\NIST98.L
  
```

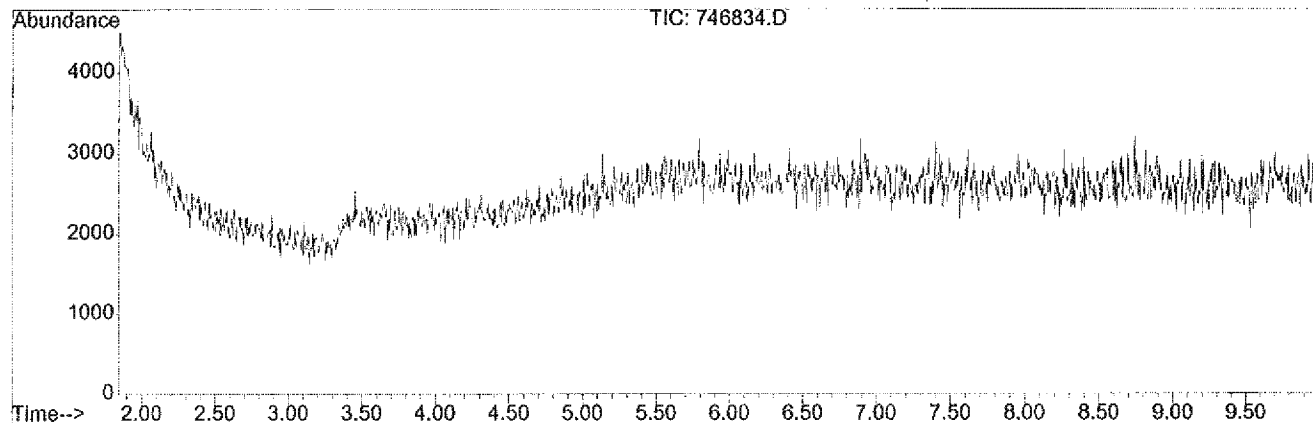
PK#	RT	Library/ID	CAS#	Qual
2	7.06	C:\DATABASE\NIST98.L		
		Tetradecanamide	000638-58-4	59
		9-Octadecenamide, (Z) -	000301-02-0	59
		9-Octadecenamide, (Z) -	000301-02-0	56



Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746834.D
Operator : ASD
Date Acquired : 4 Oct 2010 22:14
Sample Name : BLANK
Submitted by : SLD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



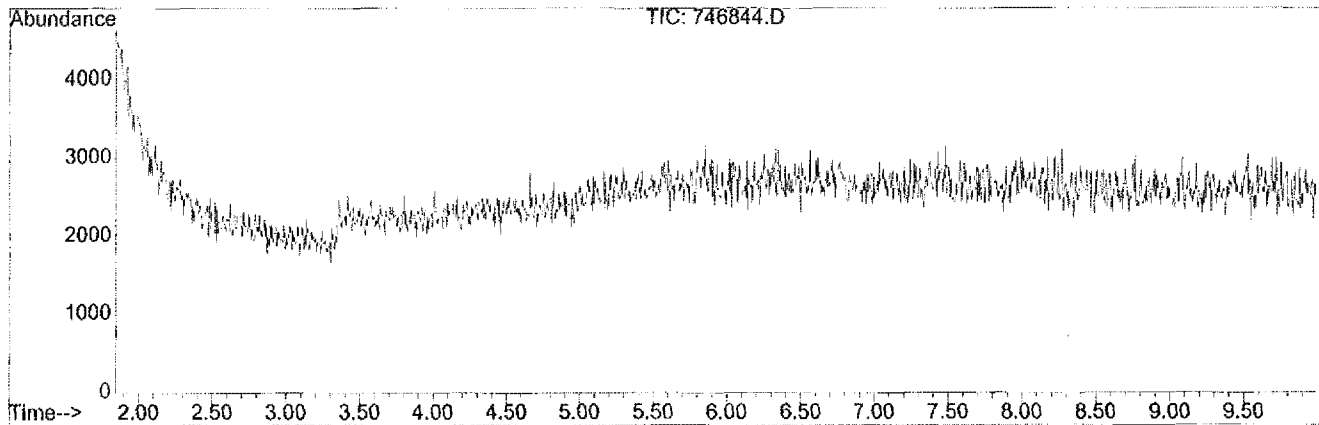
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746844.D
Operator : ASD
Date Acquired : 5 Oct 2010 00:18
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



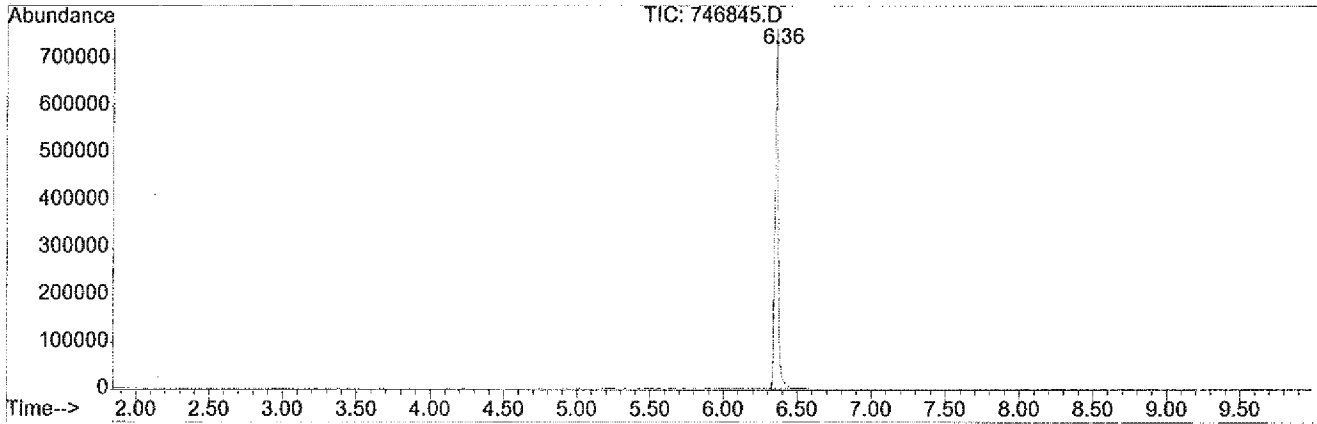
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746845.D
Operator : ASD
Date Acquired : 5 Oct 2010 00:30
Sample Name : OXYCODONE STD
Submitted by :
Vial Number : 21
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.358	1190210	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

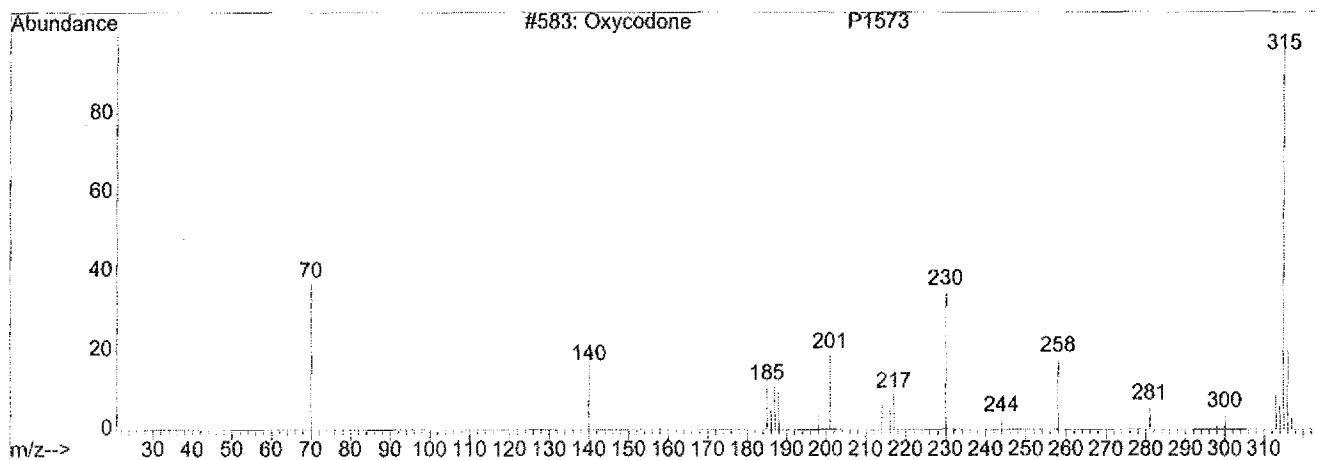
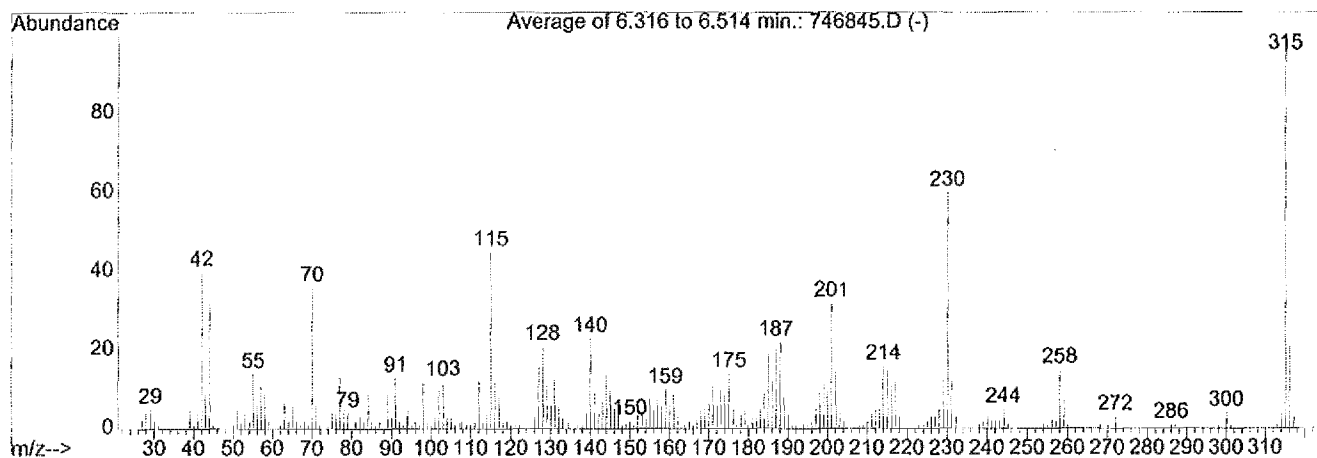
```

File Name       : K:\10_04_10\746845.D
Operator        : ASD
Date Acquired   : 5 Oct 2010 00:30
Sample Name     : OXYCODONE STD
Submitted by    :
Vial Number     : 21
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

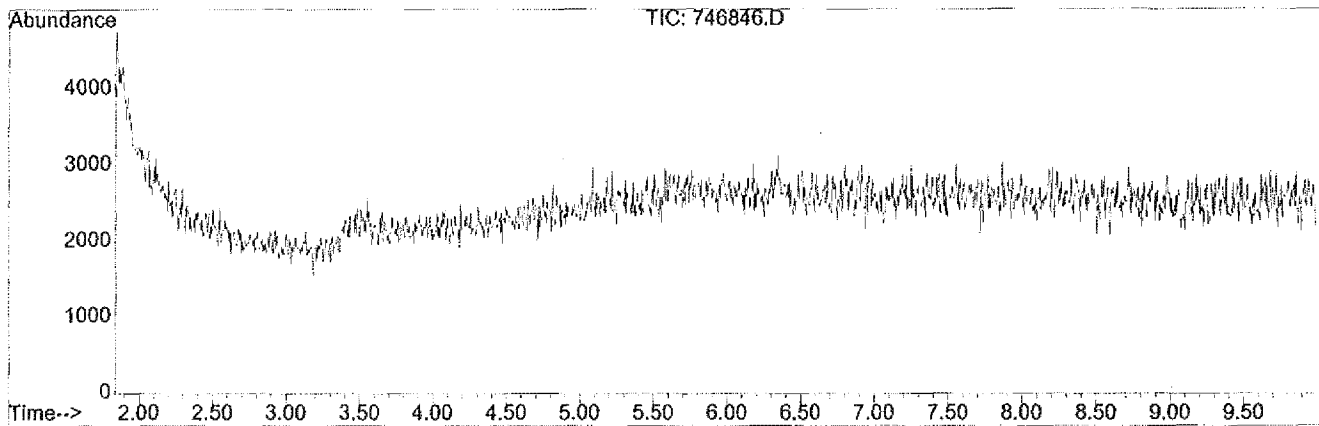
PK#	RT	Library/ID	CAS#	Qual
1	6.36	C:\DATABASE\PMW_TOX2.L		
		Oxycodone	000076-42-6	91
		Endogenous biomolecule AC	000000-00-0	9
		Amitriptyline-M -H2O AC	@ 000000-00-0	7



Area Percent / Library Search Report

Information from Data File:

File Name : K:\10_04_10\746846.D
Operator : ASD
Date Acquired : 5 Oct 2010 00:43
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS